

Abstract of the Disclosure

Large circular (LC)-sense molecules in an array is disclosed. The LC-sense molecules array is combined with cDNA hybridization to detect differences in expression profile between different cells. LC-sense molecules were purified from nonredundant clones with recombinant phagemid and arrayed onto silanized slide glasses. By hybridization of LC-sense array with Cy3 or Cy5-labelled cDNA preparations at 60°C, 29 up-regulated and 6 down-regulated genes in cancerous liver tissue were detected.